



Size:
6.69 x 3.35 x 1.73 inches
(780g)
170.0 x 85.0 x 44.0 mm

Weight:
1.72 lbs

FEATURES

- Class I
- RoHS Compliant
- Power Factor > 0.95 @ 115VAC
- 90~264 VAC Input Voltage Range
- 89% High Efficiency
- AC Inlet: IEC-320-C14 Inlet
- 100% Burn-in and Hi-pot Tested
- 140~150 Watts Output Power
- Single Outputs Available Ranging from 12V to 52V
- No Load Power Consumption < 150mW
- Over Voltage, Over Load, and Short Circuit Protection
- Meets CEC, ERP, EISA Efficiency Level VI Requirements
- UL60950-1, CSA C22.2-No.60950-1, TUV EN60950-1, CB IEC60950-1 Safety Approvals

DESCRIPTION

The DTA150A-H series of Class I AC/DC desktop power supplies provides up to 150 Watts output power in a 6.69 x 3.35 x 1.73 inch package. This series consists of single output models ranging from 12VDC to 48VDC with a 90~264VAC input voltage range and an IEC-320-C14 AC inlet connector. These supplies also feature no load power consumption <150mW, power factor > 0.95 at 115VAC, and 89% typical efficiency. These supplies are protected against short circuit, over voltage, and over load conditions and have UL60950-1, CSA C22.2-No.60950-1, TUV EN60950-1, and CB IEC60950-1 safety approvals. All models are CEC/Energy Star Level VI compliant. This series has been 100% burn-in and hi-pot tested.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Output Current		Output Power	Ripple & Noise ⁽²⁾	Output Regulation
			Min	Max			
DTA-140A-1Y120H	90 - 264 VAC	12 VDC	0A	11.67A	140W	240mVp-p	±5%
DTA-150A-1Y160H		16 VDC	0A	9.38A	150W	320mVp-p	±5%
DTA-150A-1Y190H		19 VDC	0A	7.90A	150W	380mVp-p	±5%
DTA-150A-1Y240H		24 VDC	0A	6.25A	150W	480mVp-p	±3%
DTA-150A-1Y360H		36 VDC	0A	4.17A	150W	480mVp-p	±3%
DTA-150A-1Y480H		48 VDC	0A	3.13A	150W	480mVp-p	±3%

TECHNICAL SPECIFICATIONS: DTA150A-H SERIES

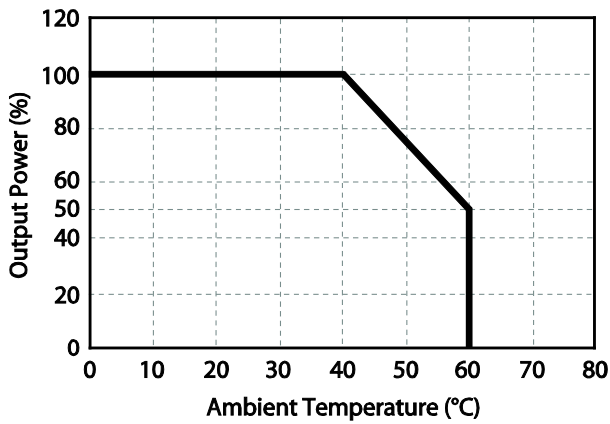
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Input Current (rms)	90VAC and full load			2.5	A
	264VAC and full load			1.25	
Inrush Current	115VAC, cold start, 25°C			75	A _{peak}
	230VAC, cold start, 25°C			150	
No Load Power Consumption				500	mW
Power Factor Correction	115VAC and full load	0.95			
	230VAC and full load	0.90			
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Output Regulation			See Table		
Output Power			See Table		
Output Current			See Table		
Minimum Load		0			%
Ripple & Noise (20MHz BW)	Measured at 20MHz limited bandwidth and with a 10µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel across the output		See Table		
Hold-up Time	115VAC and full load	16			ms
PROTECTION					
Over Voltage Protection		Shutdown and latch-off, AC recycle			
Over Load Protection	automatic recovery	Automatic Recovery			
Short Circuit Protection		Automatic Recovery			
GENERAL SPECIFICATIONS					
Efficiency	@Average Load, 115VAC/230VAC	89			%
Dielectric Withstand Voltage	For 4 seconds	Primary to Secondary	4242		VDC
		Primary to Frame Ground	2121		
Isolation Resistance	500VDC	Primary to Secondary	20		MΩ
		Primary to Frame Ground	20		
ENVIRONMENTAL SPECIFICATIONS					
Operating Ambient Temperature	Derating linearly 2.5% per °C from 41°C to +60°C	0		+60	°C
Storage Temperature Range		-10		+85	°C
Humidity		10		90	%
MTBF	Full load and 25°C ambient temperature	140,000			hours
PHYSICAL SPECIFICATIONS					
AC Inlet		IEC-320-C14			
Output Connector		Several options available			
Output Cable (Standard)	12VDC ~ 24VDC output models	See mechanical drawing			
	36VDC ~ 48VDC output models	See mechanical drawing			
Weight		1.72 lbs (780g)			
Dimensions (L x W x H)		6.69 x 3.35 x 1.73 inch (170.0 x 85.0 x 44.0 mm)			
SAFETY & EMC					
Safety Approvals		UL60950-1, CSA C22.2-No.60950-1, TUV EN60950-1, CB IEC60950-1			
EMC Standards		FCC Class B, CISPR22 Class B, EN55022 Class B, CE			

NOTES

- Other output voltages are available: 140W for 12~24VDC, 150W for 15~26VDC, 33~39VDC, and 44~52VDC. Please call factory for ordering details.
- Ripple & noise is measured at 20MHz limited bandwidth and with a 10µF electrolytic capacitor and a 0.1µF ceramic capacitor in parallel across the output.
- Several output connectors available; please call factory for ordering details.

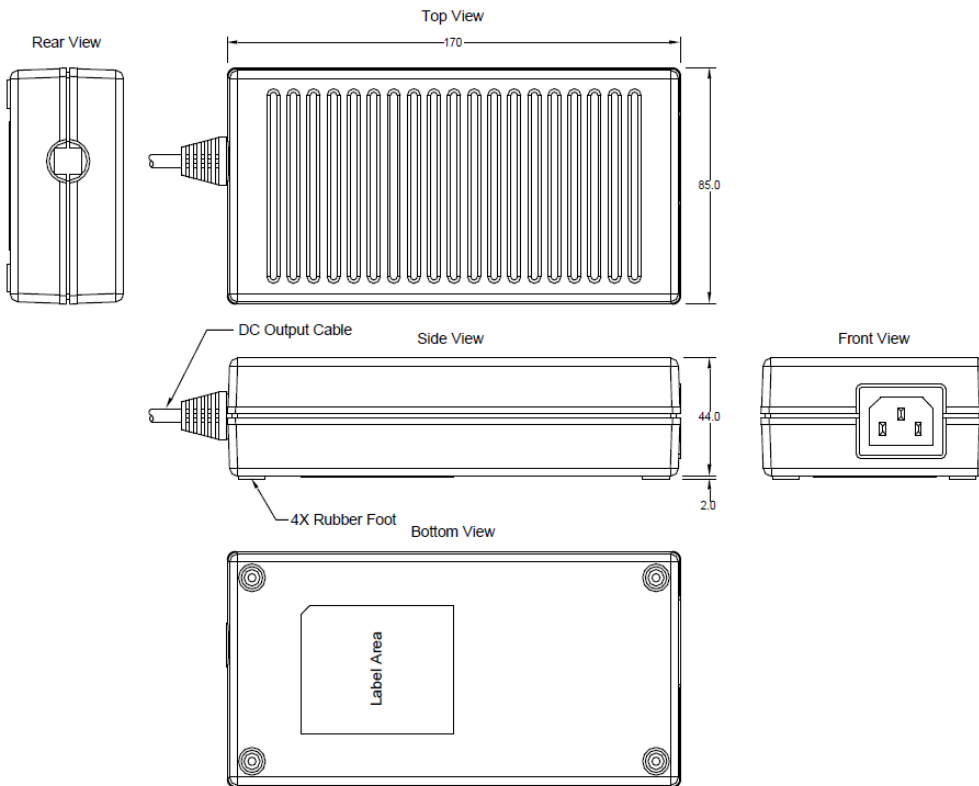
DERATING CURVE



NOTES:

1. Operating Temperature: 0°C to +60°C
2. Derating linearly 2.5% per °C from 41°C to +60°C

MECHANICAL DRAWING



Notes:

1. AC Inlet: IEC320-C14
2. Plastic Case Color: Black
3. Tolerance: ±0.5mm
4. Unit=mm

Standard Output Cable

1. AWM 1571 #14 AWG/ 1C + SHIELDING, UL 80°C 30V VW-1, 1050 mm. (12-24V)
2. AWM 1185 #16 AWG/ 1C + SHIELDING, UL 80°C 300V VW-1, 1050 mm. (36-48V)
3. Depends on Customers Requirements

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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